

**Appendix A:Maximum Transmitter Power**

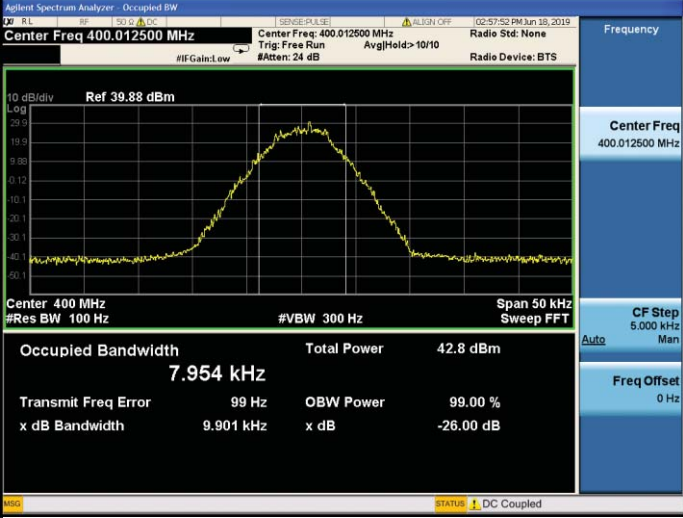
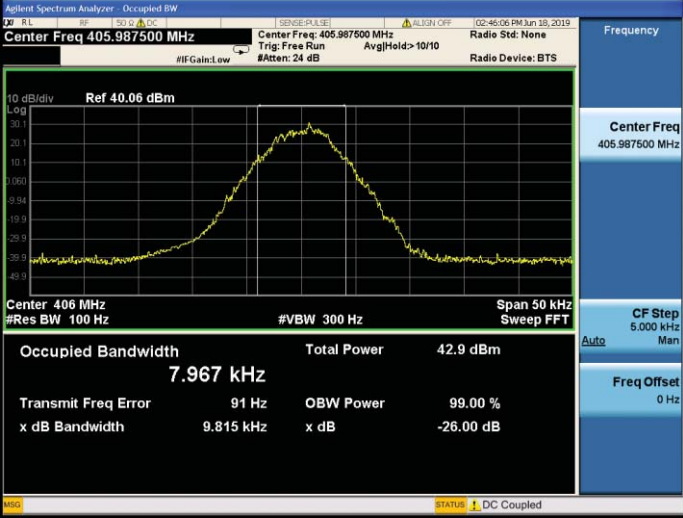
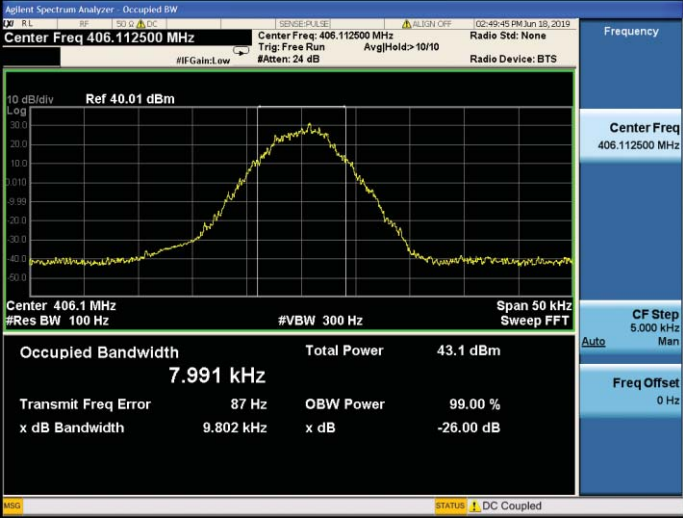
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH _{M2}	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNH	4FSK	CH _{M3}	35.9	3.89	4.00	-2.7	±20	PASS
TX-DNH	4FSK	CH _H	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNL	4FSK	CH _L	31.3	1.35	1.50	-10.1	±20	PASS
TX-DNL	4FSK	CH _{M1}	31.3	1.35	1.50	-10.1	±20	PASS
TX-DNL	4FSK	CH _{M2}	31.3	1.35	1.50	-10.1	±20	PASS
TX-DNL	4FSK	CH _{M3}	31.2	1.32	1.50	-12.1	±20	PASS
TX-DNL	4FSK	CH _H	31.5	1.41	1.50	-5.8	±20	PASS
TX-ANH	FM	CH _L	35.4	3.47	4.00	-13.3	±20	PASS
TX-ANH	FM	CH _{M1}	35.4	3.47	4.00	-13.3	±20	PASS
TX-ANH	FM	CH _{M2}	35.5	3.55	4.00	-11.3	±20	PASS
TX-ANH	FM	CH _{M3}	35.6	3.63	4.00	-9.2	±20	PASS
TX-ANH	FM	CH _H	35.4	3.47	4.00	-13.3	±20	PASS
TX-ANL	FM	CH _L	31.3	1.33	1.50	-11.1	±20	PASS
TX-ANL	FM	CH _{M1}	31.1	1.28	1.50	-14.5	±20	PASS
TX-ANL	FM	CH _{M2}	31.1	1.29	1.50	-14.3	±20	PASS
TX-ANL	FM	CH _{M3}	31.2	1.32	1.50	-11.9	±20	PASS
TX-ANL	FM	CH _H	31.3	1.35	1.50	-10.3	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.902	9.913	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.976	9.677	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.948	9.802	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	8.022	10.026	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.779	9.535	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.790	9.950	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.997	9.995	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.885	9.660	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.813	9.827	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.723	9.463	≤11.25	PASS
TX-ANH	FM	CH _L	5.175	10.044	≤11.25	PASS
TX-ANH	FM	CH _{M1}	5.174	10.041	≤11.25	PASS
TX-ANH	FM	CH _{M2}	5.179	10.048	≤11.25	PASS
TX-ANH	FM	CH _{M3}	5.175	10.068	≤11.25	PASS
TX-ANH	FM	CH _H	5.169	10.034	≤11.25	PASS
TX-ANL	FM	CH _L	5.169	10.038	≤11.25	PASS
TX-ANL	FM	CH _{M1}	5.176	10.039	≤11.25	PASS
TX-ANL	FM	CH _{M2}	5.178	10.071	≤11.25	PASS
TX-ANL	FM	CH _{M3}	5.175	10.070	≤11.25	PASS
TX-ANL	FM	CH _H	5.170	10.038	≤11.25	PASS

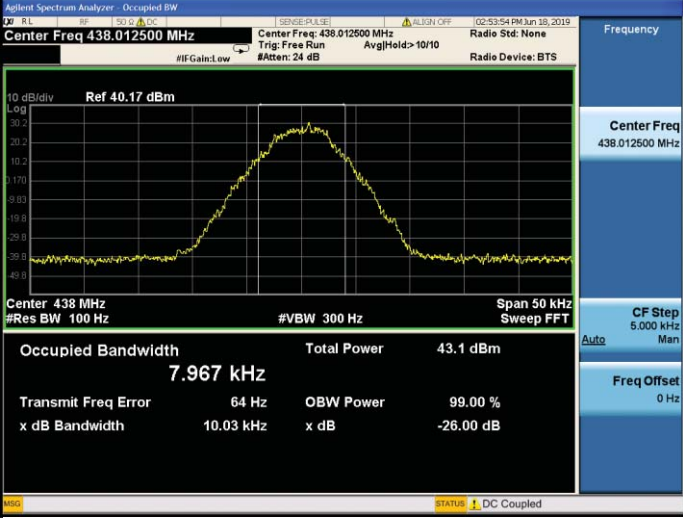
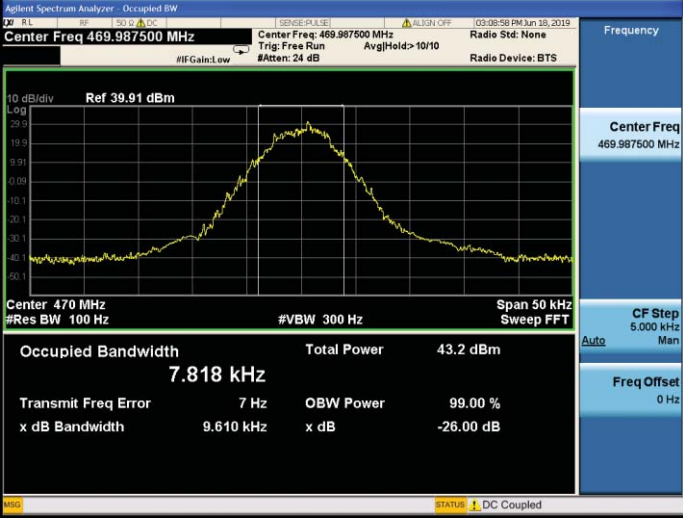
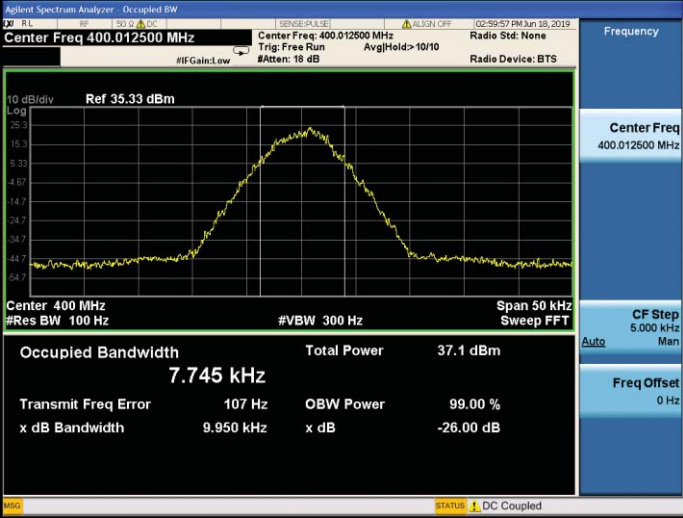


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _{M1}	
TX-DNH	4FSK	CH _{M2}	

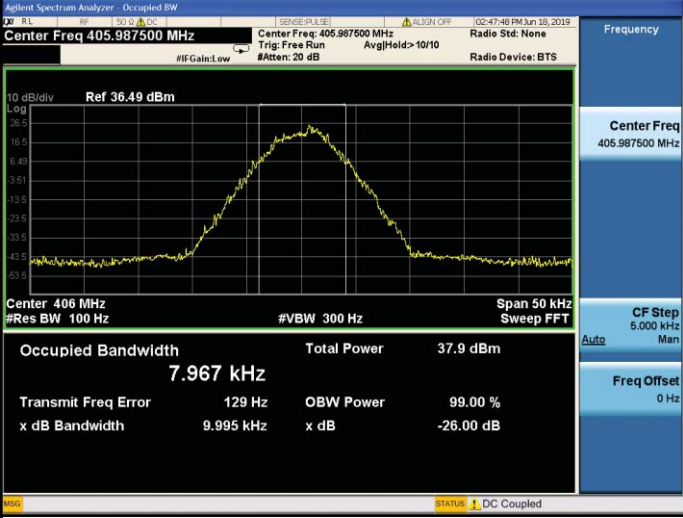
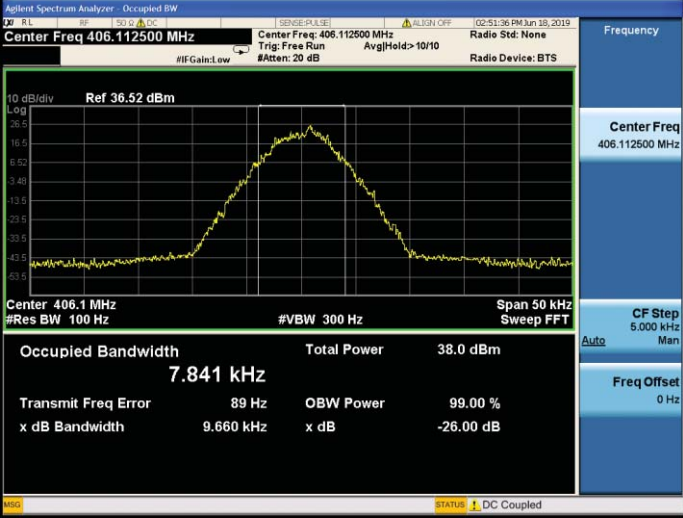
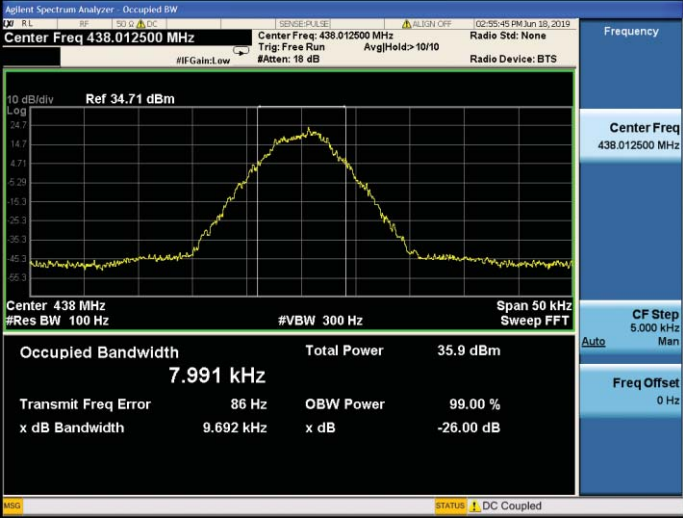


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	
TX-DNH	4FSK	CH _H	
TX-DNL	4FSK	CH _L	

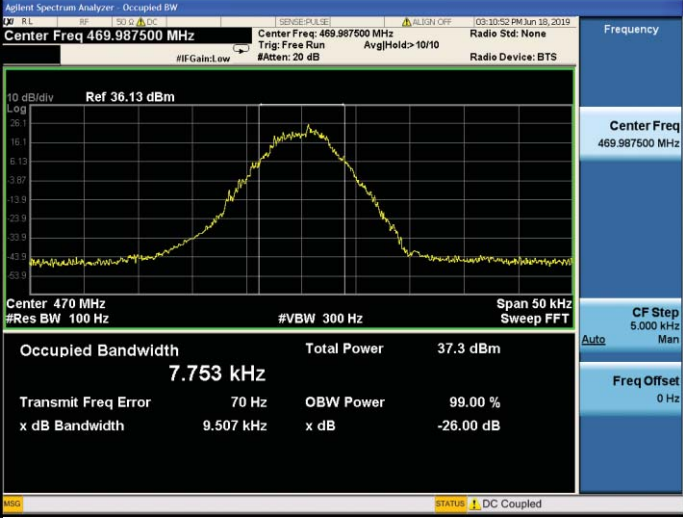
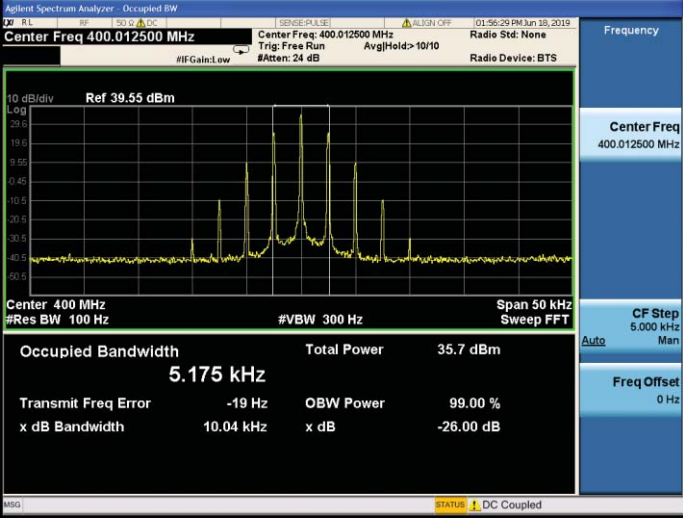
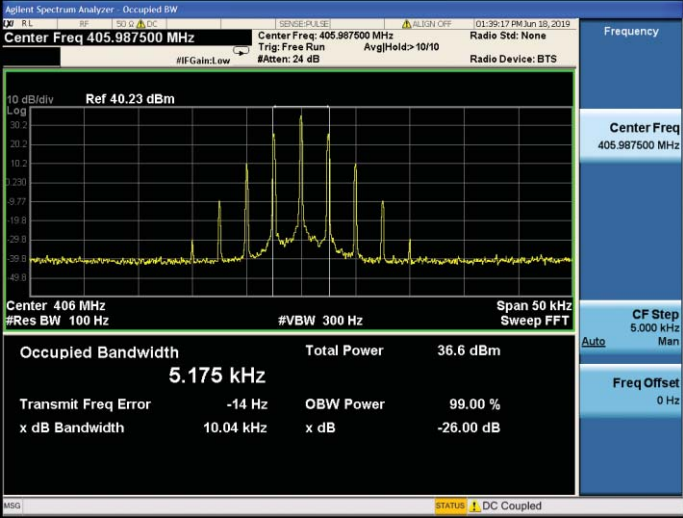


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	
TX-DNL	4FSK	CH _{M2}	
TX-DNL	4FSK	CH _{M3}	

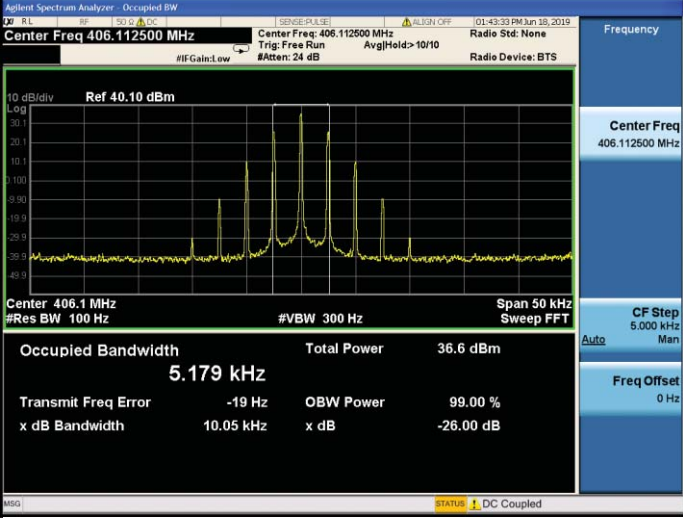
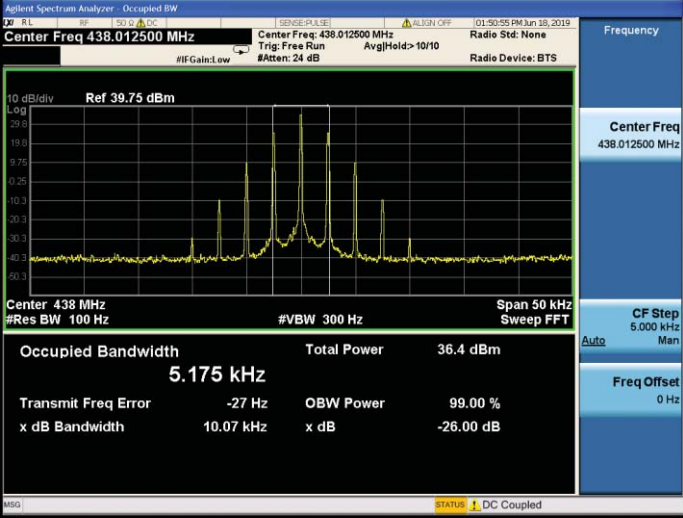
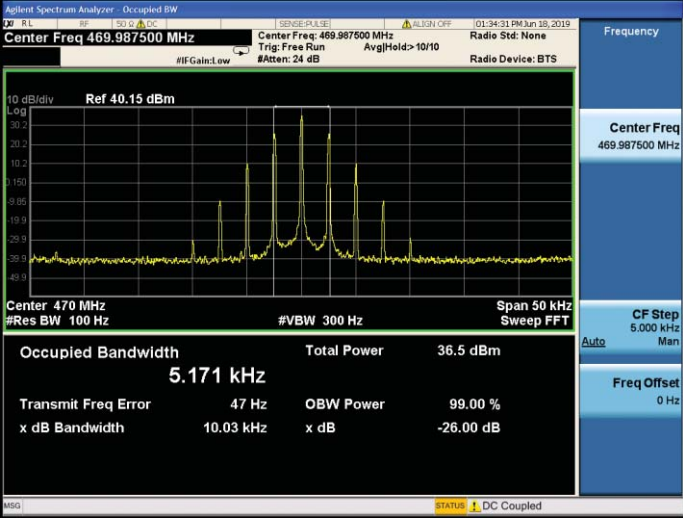


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	
TX-ANH	FM	CH _L	
TX-ANH	FM	CH _{M1}	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	
TX-ANH	FM	CH _{M3}	
TX-ANH	FM	CH _H	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 33.70 dBm 10 dB/div Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.169 kHz Total Power 29.9 dBm Transmit Freq Error -11 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 400.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.80 dBm 10 dB/div Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.177 kHz Total Power 31.1 dBm Transmit Freq Error -18 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 405.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.74 dBm 10 dB/div Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.178 kHz Total Power 31.4 dBm Transmit Freq Error -27 Hz OBW Power 99.00 % x dB Bandwidth 10.07 kHz x dB -26.00 dB Frequency Center Freq 406.112500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 32.68 dBm 10 dB/div Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.175 kHz Total Power 29.2 dBm Transmit Freq Error -27 Hz OBW Power 99.00 % x dB Bandwidth 10.07 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz STATUS DC Coupled
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.17 dBm 10 dB/div Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.170 kHz Total Power 30.5 dBm Transmit Freq Error 10 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz STATUS DC Coupled

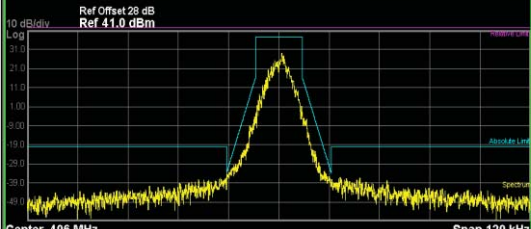
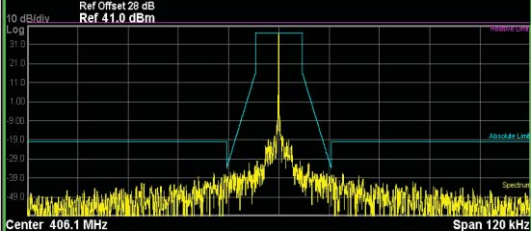
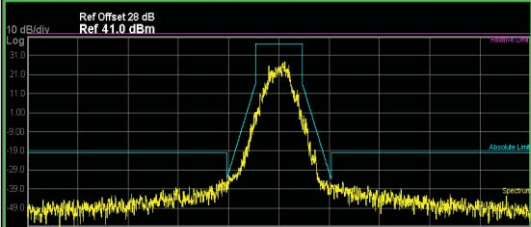


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 400 MHz Span 120 kHz Total Power Ref 36.14 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.13</td><td>(-1.09)</td><td>-50.00</td><td>36.04</td><td>(-1.18)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.21</td><td>(-7.63)</td><td>-12.00 k</td><td>-41.50</td><td>(-7.29)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.38</td><td>(-15.38)</td><td>-15.65 k</td><td>-35.25</td><td>(-15.25)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.13	(-1.09)	-50.00	36.04	(-1.18)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.21	(-7.63)	-12.00 k	-41.50	(-7.29)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.38	(-15.38)	-15.65 k	-35.25	(-15.25)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	36.13	(-1.09)	-50.00	36.04	(-1.18)	0.0																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-35.38	(-15.38)	-15.65 k	-35.25	(-15.25)	12.55 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 400 MHz Span 120 kHz Total Power Ref 39.35 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>25.45</td><td>(-11.77)</td><td>-400.0</td><td>27.68</td><td>(-9.55)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.84</td><td>(-4.54)</td><td>-12.10 k</td><td>-34.75</td><td>(-0.54)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.08</td><td>(-15.08)</td><td>-13.90 k</td><td>-35.27</td><td>(-15.27)</td><td>15.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.45	(-11.77)	-400.0	27.68	(-9.55)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.84	(-4.54)	-12.10 k	-34.75	(-0.54)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.08	(-15.08)	-13.90 k	-35.27	(-15.27)	15.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 406 MHz Span 120 kHz Total Power Ref 36.44 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.43</td><td>(-0.99)</td><td>0.0</td><td>36.43</td><td>(-0.99)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.73</td><td>(-5.35)</td><td>-12.00 k</td><td>-36.19</td><td>(-5.82)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.60</td><td>(-16.60)</td><td>-13.50 k</td><td>-36.40</td><td>(-16.40)</td><td>13.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.43	(-0.99)	0.0	36.43	(-0.99)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.73	(-5.35)	-12.00 k	-36.19	(-5.82)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.60	(-16.60)	-13.50 k	-36.40	(-16.40)	13.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	36.43	(-0.99)	0.0	36.43	(-0.99)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-35.73	(-5.35)	-12.00 k	-36.19	(-5.82)	12.00 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-36.60	(-16.60)	-13.50 k	-36.40	(-16.40)	13.45 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: OFF 02:47:10 PM Jun 18, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log  Center 406 MHz Span 120 kHz Total Power Ref 40.35 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak → dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>25.05</td><td>(-12.38)</td><td>-900.0</td><td>29.20</td><td>(-8.23)</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.02</td><td>(-0.73)</td><td>-12.40 k</td><td>-37.12</td><td>(-4.56)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.35</td><td>(-16.35)</td><td>-13.85 k</td><td>-36.29</td><td>(-16.29)</td><td>14.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.05	(-12.38)	-900.0	29.20	(-8.23)	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.02	(-0.73)	-12.40 k	-37.12	(-4.56)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.35	(-16.35)	-13.85 k	-36.29	(-16.29)	14.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: OFF 02:50:21 PM Jun 18, 2019 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log  Center 406.1 MHz Span 120 kHz Total Power Ref 36.47 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak → dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.39</td><td>(-0.91)</td><td>-50.00</td><td>36.30</td><td>(-1.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.93</td><td>(-6.25)</td><td>-12.30 k</td><td>-39.34</td><td>(-6.66)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.54</td><td>(-16.54)</td><td>-15.40 k</td><td>-36.69</td><td>(-16.69)</td><td>15.35 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.39	(-0.91)	-50.00	36.30	(-1.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.93	(-6.25)	-12.30 k	-39.34	(-6.66)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.54	(-16.54)	-15.40 k	-36.69	(-16.69)	15.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: OFF 02:50:59 PM Jun 18, 2019 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log  Center 406.1 MHz Span 120 kHz Total Power Ref 39.71 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak → dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>25.62</td><td>(-11.68)</td><td>-2.350 k</td><td>27.51</td><td>(-9.79)</td><td>1.500 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.45</td><td>(-0.67)</td><td>-12.45 k</td><td>-35.66</td><td>(-1.88)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.99</td><td>(-13.99)</td><td>-13.45 k</td><td>-35.46</td><td>(-15.46)</td><td>15.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.62	(-11.68)	-2.350 k	27.51	(-9.79)	1.500 k	5.625 kHz	12.50 kHz	100.0 Hz	-34.45	(-0.67)	-12.45 k	-35.66	(-1.88)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.99	(-13.99)	-13.45 k	-35.46	(-15.46)	15.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 AC SENSE:PULSE ALIGN OFF 09:21:13 PM Jun 18, 2019 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 438 MHz Span 120 kHz Total Power Ref 35.97 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.05</td><td>(-1.21)</td><td>0.0</td><td>36.05</td><td>(-1.21)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.11</td><td>(-4.75)</td><td>-12.25 k</td><td>-37.34</td><td>(-4.98)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.45</td><td>(-17.45)</td><td>-13.95 k</td><td>-37.33</td><td>(-17.33)</td><td>13.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.05	(-1.21)	0.0	36.05	(-1.21)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.11	(-4.75)	-12.25 k	-37.34	(-4.98)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.45	(-17.45)	-13.95 k	-37.33	(-17.33)	13.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 AC SENSE:PULSE ALIGN OFF 09:22:10 PM Jun 18, 2019 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 438 MHz Span 120 kHz Total Power Ref 39.44 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>25.23</td><td>(-12.03)</td><td>-150.0</td><td>29.55</td><td>(-7.71)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.28</td><td>(-4.83)</td><td>-12.40 k</td><td>-39.40</td><td>(-5.95)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.66</td><td>(-15.66)</td><td>-13.80 k</td><td>-35.02</td><td>(-15.02)</td><td>14.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.23	(-12.03)	-150.0	29.55	(-7.71)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.28	(-4.83)	-12.40 k	-39.40	(-5.95)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.66	(-15.66)	-13.80 k	-35.02	(-15.02)	14.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 AC SENSE:PULSE ALIGN OFF 09:12:57 PM Jun 18, 2019 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 470 MHz Span 120 kHz Total Power Ref 36.16 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.12</td><td>(-1.19)</td><td>0.0</td><td>36.12</td><td>(-1.19)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.14</td><td>(-4.01)</td><td>-12.50 k</td><td>-37.84</td><td>(-3.72)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.45</td><td>(-17.45)</td><td>-14.85 k</td><td>-37.49</td><td>(-17.49)</td><td>14.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.12	(-1.19)	0.0	36.12	(-1.19)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.14	(-4.01)	-12.50 k	-37.84	(-3.72)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.45	(-17.45)	-14.85 k	-37.49	(-17.49)	14.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

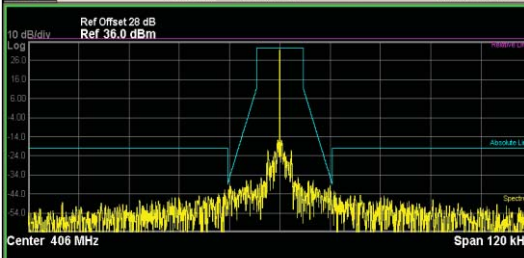
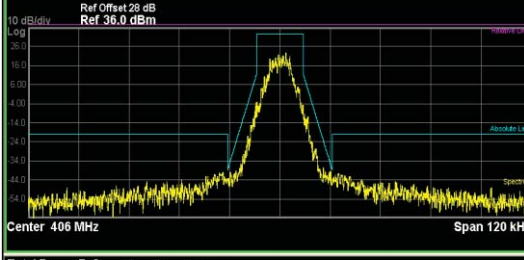
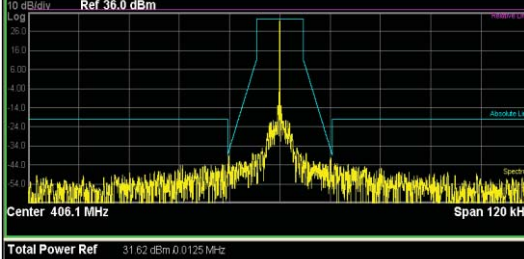


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 470 MHz Span 120 kHz Total Power Ref 39.62 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>25.65</td><td>(-11.66)</td><td>-750.0</td><td>29.53</td><td>(-7.78)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.21</td><td>(-2.08)</td><td>-12.50 k</td><td>-36.45</td><td>(-3.05)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.16</td><td>(-11.16)</td><td>-12.70 k</td><td>-30.43</td><td>(-10.43)</td><td>12.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.65	(-11.66)	-750.0	29.53	(-7.78)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.21	(-2.08)	-12.50 k	-36.45	(-3.05)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.16	(-11.16)	-12.70 k	-30.43	(-10.43)	12.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	25.65	(-11.66)	-750.0	29.53	(-7.78)	700.0																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-31.16	(-11.16)	-12.70 k	-30.43	(-10.43)	12.85 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 400 MHz Span 120 kHz Total Power Ref 31.06 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.47</td><td>(-1.10)</td><td>-50.00</td><td>30.42</td><td>(-1.14)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.91</td><td>(-5.31)</td><td>-12.05 k</td><td>-44.09</td><td>(-6.04)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.46</td><td>(-20.46)</td><td>-14.30 k</td><td>-40.22</td><td>(-20.22)</td><td>14.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.47	(-1.10)	-50.00	30.42	(-1.14)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.91	(-5.31)	-12.05 k	-44.09	(-6.04)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.46	(-20.46)	-14.30 k	-40.22	(-20.22)	14.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 Center 400 MHz Span 120 kHz Total Power Ref 33.68 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.07</td><td>(-10.49)</td><td>-50.00</td><td>23.92</td><td>(-7.65)</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.56</td><td>(-2.69)</td><td>-12.50 k</td><td>-40.51</td><td>(-2.09)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>1.000 MHz</td><td>-41.28</td><td>(-21.28)</td><td>-14.65 k</td><td>-41.23</td><td>(-21.23)</td><td>12.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.07	(-10.49)	-50.00	23.92	(-7.65)	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.56	(-2.69)	-12.50 k	-40.51	(-2.09)	12.30 k	12.50 kHz	60.00 kHz	1.000 MHz	-41.28	(-21.28)	-14.65 k	-41.23	(-21.23)	12.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 kHz	60.00 kHz	1.000 MHz	-41.28	(-21.28)	-14.65 k	-41.23	(-21.23)	12.95 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

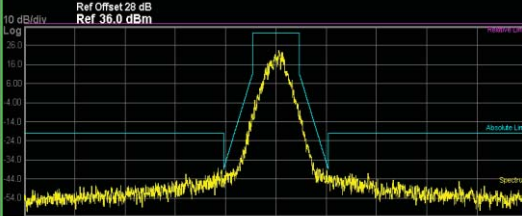
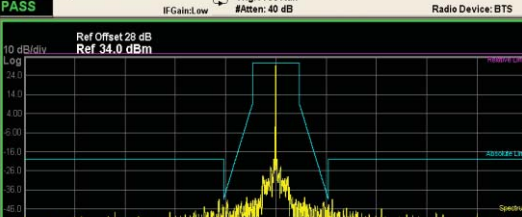


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 31.49 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.45</td><td>(-1.04)</td><td>0.0</td><td>31.45</td><td>(-1.04)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.43</td><td>(-4.48)</td><td>-11.95 k</td><td>-39.55</td><td>(-4.60)</td><td>11.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.91</td><td>(-21.91)</td><td>-13.10 k</td><td>-42.49</td><td>(-22.49)</td><td>13.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.45	(-1.04)	0.0	31.45	(-1.04)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.43	(-4.48)	-11.95 k	-39.55	(-4.60)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.91	(-21.91)	-13.10 k	-42.49	(-22.49)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	31.45	(-1.04)	0.0	31.45	(-1.04)	0.0																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 33.38 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.68</td><td>(-10.81)</td><td>-300.0</td><td>22.60</td><td>(-9.89)</td><td>1.500 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.39</td><td>(-4.44)</td><td>-12.50 k</td><td>-39.68</td><td>(-3.27)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.97</td><td>(-19.97)</td><td>-13.55 k</td><td>-40.61</td><td>(-20.61)</td><td>14.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.68	(-10.81)	-300.0	22.60	(-9.89)	1.500 k	5.625 kHz	12.50 kHz	100.0 Hz	-43.39	(-4.44)	-12.50 k	-39.68	(-3.27)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.97	(-19.97)	-13.55 k	-40.61	(-20.61)	14.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 31.62 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.39</td><td>(-1.06)</td><td>0.0</td><td>31.39</td><td>(-1.06)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.45</td><td>(-2.64)</td><td>-12.20 k</td><td>-40.53</td><td>(-4.08)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.45</td><td>(-23.45)</td><td>-13.80 k</td><td>-43.22</td><td>(-23.22)</td><td>13.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.39	(-1.06)	0.0	31.39	(-1.06)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.45	(-2.64)	-12.20 k	-40.53	(-4.08)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.45	(-23.45)	-13.80 k	-43.22	(-23.22)	13.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRFSSQACSENSE PULSEALIGN OFF02:52:51 PM Jun 18, 2019 Center Freq 406.112500 MHzCenter Freq: 406.112500 MHzRadio Std: None PASSTrig: Free RunAvg: 100.00% of 10Radio Device: BTS IF Gain: Low#Atten: 40 dB 10 dB/div Log Ref Offset 28 dB Ref 36.0 dBm  Center 406.1 MHzSpan 120 kHz Total Power Ref 35.22 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.25</td><td>(-11.19)</td><td>-150.0</td><td>23.45</td><td>(-9.00)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.10</td><td>(-5.28)</td><td>-12.20 k</td><td>-39.89</td><td>(-2.72)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.15</td><td>(-18.15)</td><td>-13.80 k</td><td>-40.97</td><td>(-20.97)</td><td>17.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz AutoMan Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.25	(-11.19)	-150.0	23.45	(-9.00)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.10	(-5.28)	-12.20 k	-39.89	(-2.72)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.15	(-18.15)	-13.80 k	-40.97	(-20.97)	17.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRFSSQACSENSE PULSEALIGN OFF02:56:21 PM Jun 18, 2019 Center Freq 438.012500 MHzCenter Freq: 438.012500 MHzRadio Std: None PASSTrig: Free RunAvg: 100.00% of 10Radio Device: BTS IF Gain: Low#Atten: 40 dB 10 dB/div Log Ref Offset 28 dB Ref 34.0 dBm  Center 438 MHzSpan 120 kHz Total Power Ref 29.42 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.15</td><td>(-1.31)</td><td>0.0</td><td>29.15</td><td>(-1.31)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.04</td><td>(-4.43)</td><td>-12.45 k</td><td>-45.40</td><td>(-5.15)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.84</td><td>(-20.84)</td><td>-13.55 k</td><td>-40.84</td><td>(-20.84)</td><td>13.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz AutoMan Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.15	(-1.31)	0.0	29.15	(-1.31)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.04	(-4.43)	-12.45 k	-45.40	(-5.15)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.84	(-20.84)	-13.55 k	-40.84	(-20.84)	13.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRFSSQACSENSE PULSEALIGN OFF02:56:55 PM Jun 18, 2019 Center Freq 438.012500 MHzCenter Freq: 438.012500 MHzRadio Std: None PASSTrig: Free RunAvg: 100.00% of 10Radio Device: BTS IF Gain: Low#Atten: 40 dB 10 dB/div Log Ref Offset 28 dB Ref 34.0 dBm  Center 438 MHzSpan 120 kHz Total Power Ref 32.52 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>19.39</td><td>(-11.07)</td><td>-900.0</td><td>22.91</td><td>(-7.55)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.63</td><td>(-3.20)</td><td>-12.15 k</td><td>-43.82</td><td>(-3.21)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.78</td><td>(-21.78)</td><td>-14.10 k</td><td>-41.03</td><td>(-21.03)</td><td>14.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz AutoMan Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	19.39	(-11.07)	-900.0	22.91	(-7.55)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.63	(-3.20)	-12.15 k	-43.82	(-3.21)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.78	(-21.78)	-14.10 k	-41.03	(-21.03)	14.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Ref Offset 28 dB Ref 36.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 30.55 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.51</td><td>(-1.27)</td><td>0.0</td><td>30.51</td><td>(-1.27)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.69</td><td>(-7.20)</td><td>-12.20 k</td><td>-46.24</td><td>(-8.75)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.21</td><td>(-20.21)</td><td>-14.25 k</td><td>-40.27</td><td>(-20.27)</td><td>14.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.51	(-1.27)	0.0	30.51	(-1.27)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.69	(-7.20)	-12.20 k	-46.24	(-8.75)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.21	(-20.21)	-14.25 k	-40.27	(-20.27)	14.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Ref Offset 28 dB Ref 36.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 34.62 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>18.85</td><td>(-12.92)</td><td>0.0</td><td>21.78</td><td>(-10.00)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.64</td><td>(-3.16)</td><td>-12.20 k</td><td>-42.44</td><td>(-4.23)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.89</td><td>(-19.89)</td><td>-12.85 k</td><td>-40.70</td><td>(-20.70)</td><td>12.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.85	(-12.92)	0.0	21.78	(-10.00)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.64	(-3.16)	-12.20 k	-42.44	(-4.23)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.89	(-19.89)	-12.85 k	-40.70	(-20.70)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 28 dB Ref 41.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 36.07 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.07</td><td>(-0.94)</td><td>0.0</td><td>36.07</td><td>(-0.94)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.82</td><td>(-8.84)</td><td>-12.30 k</td><td>-42.07</td><td>(-9.09)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.05</td><td>(-17.05)</td><td>-13.00 k</td><td>-36.97</td><td>(-16.97)</td><td>13.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.07	(-0.94)	0.0	36.07	(-0.94)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.82	(-8.84)	-12.30 k	-42.07	(-9.09)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.05	(-17.05)	-13.00 k	-36.97	(-16.97)	13.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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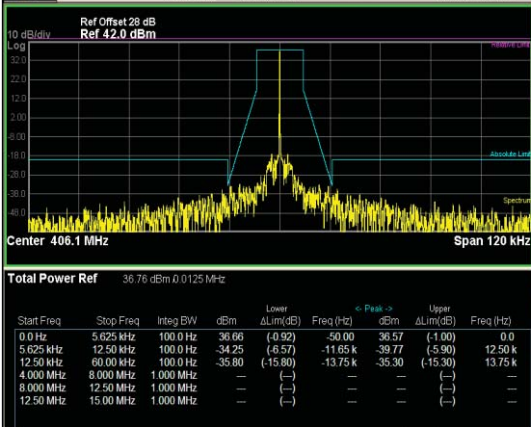
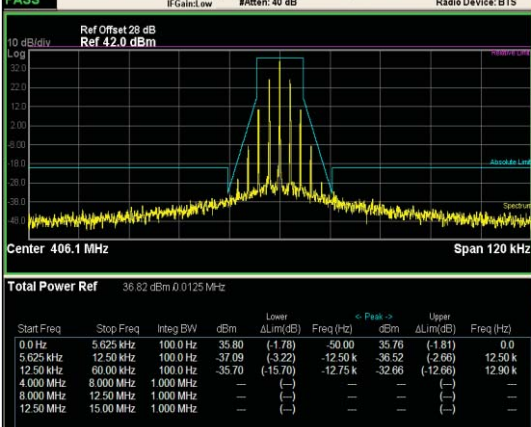
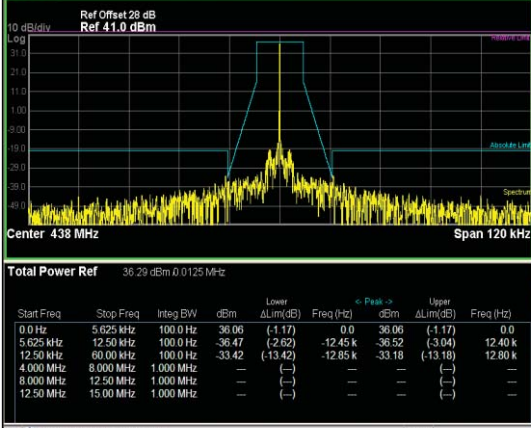


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 27.0 23.0 19.0 15.0 11.0 7.0 3.0 -1.0 -5.0 -9.0 -13.0 -17.0 -21.0 -25.0 -29.0 -33.0 -37.0 -41.0 Center 400 MHz Span 120 kHz Total Power Ref 36.20 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.20</td><td>(-1.81)</td><td>0.0</td><td>35.20</td><td>(-1.81)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.59</td><td>(-2.16)</td><td>-12.50 k</td><td>-37.45</td><td>(-5.56)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.90</td><td>(-15.90)</td><td>-16.75 k</td><td>-34.22</td><td>(-14.22)</td><td>13.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.20	(-1.81)	0.0	35.20	(-1.81)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.59	(-2.16)	-12.50 k	-37.45	(-5.56)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.90	(-15.90)	-16.75 k	-34.22	(-14.22)	13.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	35.20	(-1.81)	0.0	35.20	(-1.81)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-36.59	(-2.16)	-12.50 k	-37.45	(-5.56)	12.15 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.90	(-15.90)	-16.75 k	-34.22	(-14.22)	13.20 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 42.0 dBm 10 dB/div Log 31.0 27.0 23.0 19.0 15.0 11.0 7.0 3.0 -1.0 -5.0 -9.0 -13.0 -17.0 -21.0 -25.0 -29.0 -33.0 -37.0 -41.0 Center 406 MHz Span 120 kHz Total Power Ref 36.86 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.80</td><td>(-0.90)</td><td>-50.00</td><td>36.70</td><td>(-1.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.30</td><td>(-2.56)</td><td>-12.50 k</td><td>-36.66</td><td>(-3.29)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.82</td><td>(-15.82)</td><td>-13.05 k</td><td>-35.82</td><td>(-15.82)</td><td>13.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.80	(-0.90)	-50.00	36.70	(-1.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.30	(-2.56)	-12.50 k	-36.66	(-3.29)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.82	(-15.82)	-13.05 k	-35.82	(-15.82)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	36.80	(-0.90)	-50.00	36.70	(-1.00)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-36.30	(-2.56)	-12.50 k	-36.66	(-3.29)	12.45 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.82	(-15.82)	-13.05 k	-35.82	(-15.82)	13.00 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 42.0 dBm 10 dB/div Log 31.0 27.0 23.0 19.0 15.0 11.0 7.0 3.0 -1.0 -5.0 -9.0 -13.0 -17.0 -21.0 -25.0 -29.0 -33.0 -37.0 -41.0 Center 406 MHz Span 120 kHz Total Power Ref 36.93 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.91</td><td>(-1.79)</td><td>-50.00</td><td>35.87</td><td>(-1.82)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.18</td><td>(-1.44)</td><td>-12.50 k</td><td>-37.67</td><td>(-4.29)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.87</td><td>(-11.87)</td><td>-13.30 k</td><td>-32.88</td><td>(-12.88)</td><td>13.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.91	(-1.79)	-50.00	35.87	(-1.82)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.18	(-1.44)	-12.50 k	-37.67	(-4.29)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.87	(-11.87)	-13.30 k	-32.88	(-12.88)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	35.91	(-1.79)	-50.00	35.87	(-1.82)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-35.18	(-1.44)	-12.50 k	-37.67	(-4.29)	12.45 k																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

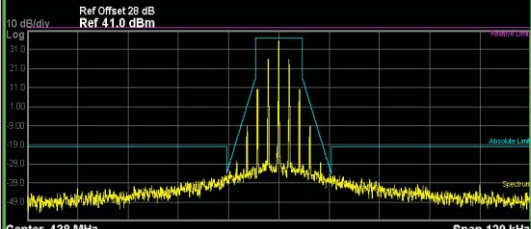
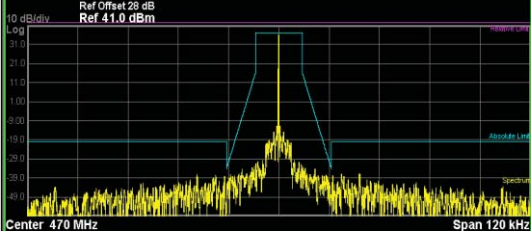
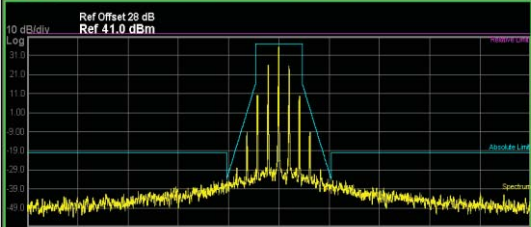


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 28 dB Ref 42.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 36.76 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.66</td><td>(-0.92)</td><td>-50.00</td><td>36.57</td><td>(1.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.25</td><td>(-6.57)</td><td>-11.65 k</td><td>-39.77</td><td>(-5.90)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.80</td><td>(-15.80)</td><td>-13.75 k</td><td>-35.30</td><td>(-15.30)</td><td>13.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.66	(-0.92)	-50.00	36.57	(1.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.25	(-6.57)	-11.65 k	-39.77	(-5.90)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.80	(-15.80)	-13.75 k	-35.30	(-15.30)	13.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	36.66	(-0.92)	-50.00	36.57	(1.00)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-34.25	(-6.57)	-11.65 k	-39.77	(-5.90)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.80	(-15.80)	-13.75 k	-35.30	(-15.30)	13.75 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 28 dB Ref 42.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 36.82 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.80</td><td>(-1.78)</td><td>-50.00</td><td>35.76</td><td>(-1.81)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.09</td><td>(-3.22)</td><td>-12.50 k</td><td>-36.52</td><td>(-2.66)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.70</td><td>(-15.70)</td><td>-12.75 k</td><td>-32.66</td><td>(-12.66)</td><td>12.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.80	(-1.78)	-50.00	35.76	(-1.81)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.09	(-3.22)	-12.50 k	-36.52	(-2.66)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.70	(-15.70)	-12.75 k	-32.66	(-12.66)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	35.80	(-1.78)	-50.00	35.76	(-1.81)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-37.09	(-3.22)	-12.50 k	-36.52	(-2.66)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.70	(-15.70)	-12.75 k	-32.66	(-12.66)	12.90 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 28 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 36.29 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.06</td><td>(-1.17)</td><td>0.0</td><td>36.06</td><td>(-1.17)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.47</td><td>(-2.62)</td><td>-12.45 k</td><td>-36.52</td><td>(-3.04)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.42</td><td>(-13.42)</td><td>-12.85 k</td><td>-33.18</td><td>(-13.18)</td><td>12.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.06	(-1.17)	0.0	36.06	(-1.17)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.47	(-2.62)	-12.45 k	-36.52	(-3.04)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.42	(-13.42)	-12.85 k	-33.18	(-13.18)	12.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	36.06	(-1.17)	0.0	36.06	(-1.17)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-36.47	(-2.62)	-12.45 k	-36.52	(-3.04)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-33.42	(-13.42)	-12.85 k	-33.18	(-13.18)	12.80 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: OFF 01:52:20 PM Jun 18, 2019 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 36.37 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.22</td><td>(-2.00)</td><td>0.0</td><td>35.22</td><td>(-2.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.66</td><td>(-1.45)</td><td>-12.50 k</td><td>-34.23</td><td>(-1.47)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.90</td><td>(-14.90)</td><td>-12.80 k</td><td>-35.41</td><td>(-15.41)</td><td>13.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.22	(-2.00)	0.0	35.22	(-2.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.66	(-1.45)	-12.50 k	-34.23	(-1.47)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.90	(-14.90)	-12.80 k	-35.41	(-15.41)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	35.22	(-2.00)	0.0	35.22	(-2.00)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-35.66	(-1.45)	-12.50 k	-34.23	(-1.47)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-34.90	(-14.90)	-12.80 k	-35.41	(-15.41)	13.40 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: OFF 02:07:41 PM Jun 18, 2019 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 36.10 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.12</td><td>(-1.12)</td><td>-50.00</td><td>35.89</td><td>(-1.36)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.54</td><td>(-9.26)</td><td>-12.10 k</td><td>-38.65</td><td>(-10.28)</td><td>11.70 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.32</td><td>(-17.32)</td><td>-19.40 k</td><td>-36.77</td><td>(-16.77)</td><td>19.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK 0 state> recalled (STATUS) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.12	(-1.12)	-50.00	35.89	(-1.36)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.54	(-9.26)	-12.10 k	-38.65	(-10.28)	11.70 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.32	(-17.32)	-19.40 k	-36.77	(-16.77)	19.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	36.12	(-1.12)	-50.00	35.89	(-1.36)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-40.54	(-9.26)	-12.10 k	-38.65	(-10.28)	11.70 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-37.32	(-17.32)	-19.40 k	-36.77	(-16.77)	19.30 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: OFF 02:08:02 PM Jun 18, 2019 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 36.64 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.27</td><td>(-1.98)</td><td>0.0</td><td>35.27</td><td>(-1.98)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.14</td><td>(-1.67)</td><td>-12.40 k</td><td>-36.41</td><td>(-3.67)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.32</td><td>(-14.32)</td><td>-13.35 k</td><td>-34.72</td><td>(-14.72)</td><td>12.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.27	(-1.98)	0.0	35.27	(-1.98)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.14	(-1.67)	-12.40 k	-36.41	(-3.67)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.32	(-14.32)	-13.35 k	-34.72	(-14.72)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	35.27	(-1.98)	0.0	35.27	(-1.98)	0.0																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 34.0 Center 400 MHz Span 120 kHz Total Power Ref 30.22 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.27</td><td>(-1.60)</td><td>0.0</td><td>30.27</td><td>(-1.60)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.94</td><td>(-5.09)</td><td>-12.40 k</td><td>-44.50</td><td>(-5.66)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.91</td><td>(-23.91)</td><td>-17.50 k</td><td>-42.93</td><td>(-22.93)</td><td>13.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.27	(-1.60)	0.0	30.27	(-1.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.94	(-5.09)	-12.40 k	-44.50	(-5.66)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.91	(-23.91)	-17.50 k	-42.93	(-22.93)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	30.27	(-1.60)	0.0	30.27	(-1.60)	0.0																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 34.0 Center 400 MHz Span 120 kHz Total Power Ref 30.31 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.41</td><td>(-2.46)</td><td>0.0</td><td>29.41</td><td>(-2.46)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.36</td><td>(-3.06)</td><td>-12.05 k</td><td>-42.45</td><td>(-3.24)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.02</td><td>(-20.02)</td><td>-12.60 k</td><td>-40.70</td><td>(-20.70)</td><td>15.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.41	(-2.46)	0.0	29.41	(-2.46)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.36	(-3.06)	-12.05 k	-42.45	(-3.24)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.02	(-20.02)	-12.60 k	-40.70	(-20.70)	15.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 34.0 Center 406 MHz Span 120 kHz Total Power Ref 31.43 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.24</td><td>(-1.05)</td><td>0.0</td><td>31.24</td><td>(-1.05)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.60</td><td>(-7.27)</td><td>-12.25 k</td><td>-44.84</td><td>(-7.87)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.80</td><td>(-21.80)</td><td>-15.25 k</td><td>-40.96</td><td>(-20.96)</td><td>15.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.24	(-1.05)	0.0	31.24	(-1.05)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.60	(-7.27)	-12.25 k	-44.84	(-7.87)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.80	(-21.80)	-15.25 k	-40.96	(-20.96)	15.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

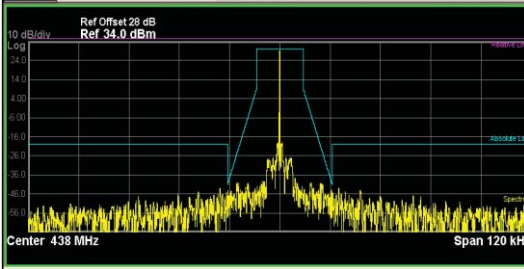
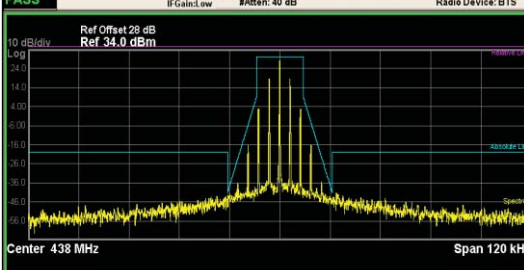
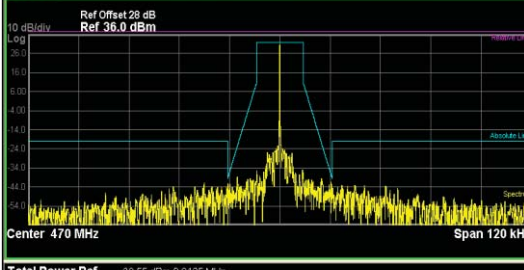


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Trig: Free Run IF Gain: Low Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 31.55 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.42</td><td>(-1.87)</td><td>0.0</td><td>30.42</td><td>(-1.87)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.48</td><td>(-1.33)</td><td>-12.50 k</td><td>-40.22</td><td>(-1.07)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.47</td><td>(-19.47)</td><td>-12.50 k</td><td>-38.46</td><td>(-18.46)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.42	(-1.87)	0.0	30.42	(-1.87)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.48	(-1.33)	-12.50 k	-40.22	(-1.07)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.47	(-19.47)	-12.50 k	-38.46	(-18.46)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	30.42	(-1.87)	0.0	30.42	(-1.87)	0.0																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Trig: Free Run IF Gain: Low Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 31.53 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.29</td><td>(-0.94)</td><td>0.0</td><td>31.29</td><td>(-0.94)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-49.01</td><td>(-10.89)</td><td>-12.35 k</td><td>-46.92</td><td>(-7.71)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.27</td><td>(-20.27)</td><td>-13.85 k</td><td>-40.25</td><td>(-20.25)</td><td>13.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.29	(-0.94)	0.0	31.29	(-0.94)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-49.01	(-10.89)	-12.35 k	-46.92	(-7.71)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.27	(-20.27)	-13.85 k	-40.25	(-20.25)	13.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Trig: Free Run IF Gain: Low Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 31.62 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.41</td><td>(-1.82)</td><td>-50.00</td><td>30.37</td><td>(-1.86)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.18</td><td>(-3.52)</td><td>-12.15 k</td><td>-41.43</td><td>(-3.31)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.18</td><td>(-20.18)</td><td>-12.65 k</td><td>-41.07</td><td>(-21.07)</td><td>13.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.41	(-1.82)	-50.00	30.37	(-1.86)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.18	(-3.52)	-12.15 k	-41.43	(-3.31)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.18	(-20.18)	-12.65 k	-41.07	(-21.07)	13.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 28 dB Ref 34.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 29.54 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.99</td><td>(-1.17)</td><td>0.0</td><td>28.99</td><td>(-1.17)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.20</td><td>(-3.29)</td><td>-12.45 k</td><td>-43.98</td><td>(-3.44)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.12</td><td>(-23.12)</td><td>-14.20 k</td><td>-43.07</td><td>(-23.07)</td><td>14.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.99	(-1.17)	0.0	28.99	(-1.17)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.20	(-3.29)	-12.45 k	-43.98	(-3.44)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.12	(-23.12)	-14.20 k	-43.07	(-23.07)	14.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 28 dB Ref 34.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 29.35 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.08</td><td>(-2.08)</td><td>-50.00</td><td>28.08</td><td>(-2.09)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.58</td><td>(-2.03)</td><td>-12.40 k</td><td>-44.40</td><td>(-3.85)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.14</td><td>(-23.14)</td><td>-12.80 k</td><td>-41.43</td><td>(-21.43)</td><td>13.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.08	(-2.08)	-50.00	28.08	(-2.09)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.58	(-2.03)	-12.40 k	-44.40	(-3.85)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.14	(-23.14)	-12.80 k	-41.43	(-21.43)	13.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 30.55 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.53</td><td>(-1.13)</td><td>0.0</td><td>30.53</td><td>(-1.13)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.04</td><td>(-2.99)</td><td>-12.40 k</td><td>-41.54</td><td>(-2.86)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.99</td><td>(-21.99)</td><td>-18.00 k</td><td>-43.24</td><td>(-23.24)</td><td>20.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.53	(-1.13)	0.0	30.53	(-1.13)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.04	(-2.99)	-12.40 k	-41.54	(-2.86)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.99	(-21.99)	-18.00 k	-43.24	(-23.24)	20.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Att: 40 dB Radio Device: BTS 10 dB/div Ref Offset 28 dB Ref 36.0 dBm Log 36.0 16.0 6.00 14.0 34.0 34.0 Center 470 MHz Span 120 kHz Total Power Ref 30.65 dBm, 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Peak Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Upper Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.64</td><td>(-2.02)</td><td>0.0</td><td>29.64</td><td>(-2.02)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.34</td><td>(-2.65)</td><td>-12.35 k</td><td>-42.33</td><td>(-2.56)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.93</td><td>(-18.93)</td><td>-15.25 k</td><td>-40.10</td><td>(-20.10)</td><td>15.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File «Temp.png» saved STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.64	(-2.02)	0.0	29.64	(-2.02)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.34	(-2.65)	-12.35 k	-42.33	(-2.56)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.93	(-18.93)	-15.25 k	-40.10	(-20.10)	15.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)																																																							
0.0 Hz	5.625 kHz	100.0 Hz	29.64	(-2.02)	0.0	29.64	(-2.02)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.34	(-2.65)	-12.35 k	-42.33	(-2.56)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-38.93	(-18.93)	-15.25 k	-40.10	(-20.10)	15.20 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

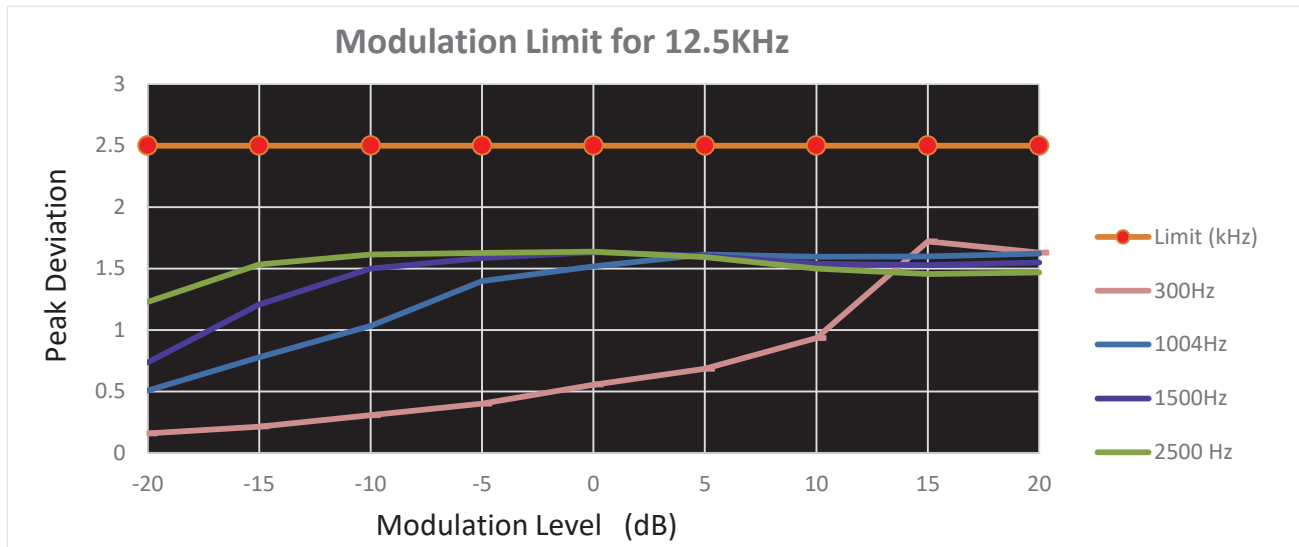
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.159	0.507	0.737	1.23	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.215	0.778	1.207	1.534	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.307	1.033	1.5	1.614	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.401	1.399	1.585	1.627	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.555	1.517	1.632	1.638	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.685	1.615	1.603	1.592	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.934	1.595	1.538	1.499	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.72	1.599	1.527	1.454	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.629	1.623	1.55	1.469	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

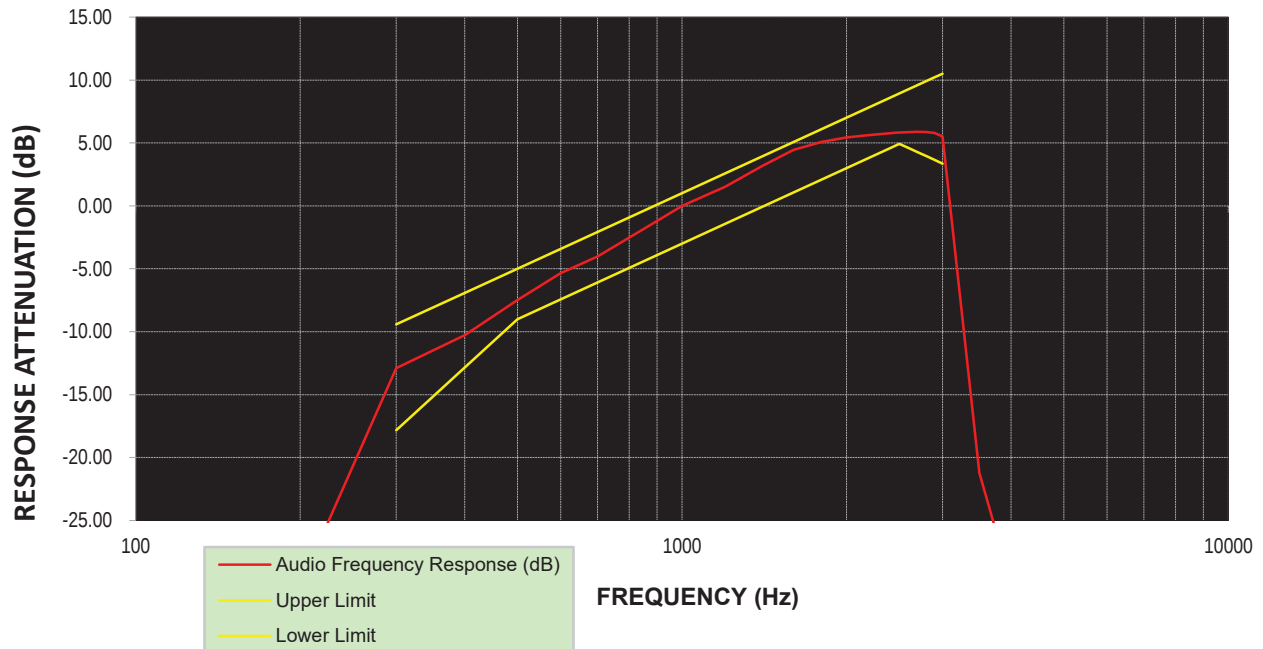
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-30.00	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-30.13	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-12.91	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-10.29	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-7.48	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.35	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-4.03	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.53	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.19	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	0.00	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.52	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.15	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.45	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.09	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.43	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.54	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.63	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.71	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	5.77	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.83	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	5.88	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	5.91	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	5.87	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	5.78	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	5.52	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-21.22	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-30.05	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-30.03	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-29.56	-	-	PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT

Aduio Frequency Response For 12.5kHz



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

**Appendix F:Frequency Stability Test & Temperature**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	0.059	0.059	0.073	0.042	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.059	0.062	0.071	0.040	-0.024	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.055	0.061	0.068	0.039	-0.024	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.056	0.063	0.071	0.041	-0.023	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.057	0.063	0.070	0.040	-0.024	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.055	0.058	0.067	0.038	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.056	0.060	0.072	0.040	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.057	0.064	0.074	0.040	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.058	0.062	0.072	0.041	-0.023	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.062	<u>0.101</u>	0.066	0.008	-0.043	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.065	0.093	0.065	0.007	-0.041	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.062	0.095	0.069	0.007	-0.043	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.059	0.096	0.070	0.008	-0.041	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.062	0.101	0.067	0.007	-0.044	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.059	0.093	0.065	0.007	-0.040	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.063	0.101	0.069	0.007	-0.042	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.062	0.093	0.068	0.008	-0.042	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.062	0.096	0.069	0.007	-0.041	±5.0	PASS
TX-ANH	FM	V _N	-30	0.189	0.095	0.108	0.098	0.152	±5.0	PASS
TX-ANH	FM	V _N	-20	0.184	0.092	0.106	0.099	0.161	±5.0	PASS
TX-ANH	FM	V _N	-10	<u>0.195</u>	0.088	0.113	0.095	0.158	±5.0	PASS
TX-ANH	FM	V _N	0	0.183	0.090	0.104	0.092	0.153	±5.0	PASS
TX-ANH	FM	V _N	10	0.181	0.092	0.105	0.095	0.158	±5.0	PASS
TX-ANH	FM	V _N	20	0.178	0.088	0.103	0.091	0.150	±5.0	PASS
TX-ANH	FM	V _N	30	0.186	0.090	0.107	0.093	0.160	±5.0	PASS
TX-ANH	FM	V _N	40	0.182	0.095	0.106	0.099	0.152	±5.0	PASS
TX-ANH	FM	V _N	55	0.192	0.094	0.107	0.097	0.158	±5.0	PASS
TX-ANL	FM	V _N	-30	0.147	0.073	0.071	0.069	0.087	±5.0	PASS
TX-ANL	FM	V _N	-20	0.143	0.075	0.074	0.066	0.086	±5.0	PASS
TX-ANL	FM	V _N	-10	0.138	0.069	0.074	0.065	0.083	±5.0	PASS
TX-ANL	FM	V _N	0	0.145	0.072	0.073	0.067	0.083	±5.0	PASS
TX-ANL	FM	V _N	10	0.145	0.068	0.071	0.066	0.090	±5.0	PASS
TX-ANL	FM	V _N	20	0.136	0.068	0.069	0.064	0.082	±5.0	PASS
TX-ANL	FM	V _N	30	0.137	0.069	0.074	0.064	0.086	±5.0	PASS
TX-ANL	FM	V _N	40	0.148	0.074	0.075	0.070	0.086	±5.0	PASS
TX-ANL	FM	V _N	55	0.147	0.070	0.070	0.064	0.083	±5.0	PASS

**Appendix G:Frequency Stability Test & Voltage**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.055	0.058	0.067	0.038	-0.022	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.055	0.059	0.067	0.038	-0.022	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.056	0.059	<u>0.068</u>	0.039	-0.023	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.059	0.093	0.065	0.007	-0.040	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.060	0.095	0.066	0.007	-0.040	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.062	0.094	0.068	0.007	-0.041	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.178	0.088	0.103	0.091	0.150	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.179	0.089	0.105	0.091	0.150	±5.0	PASS
TX-ANH	FM	V _H	T _N	<u>0.183</u>	0.091	0.104	0.093	0.155	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.136	0.068	0.069	0.064	0.082	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.139	0.068	0.070	0.065	0.083	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.141	0.071	0.070	0.065	0.086	±5.0	PASS



Appendix H: Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: JPK (17MHz) YIG Bypass 1 FM Time Domain

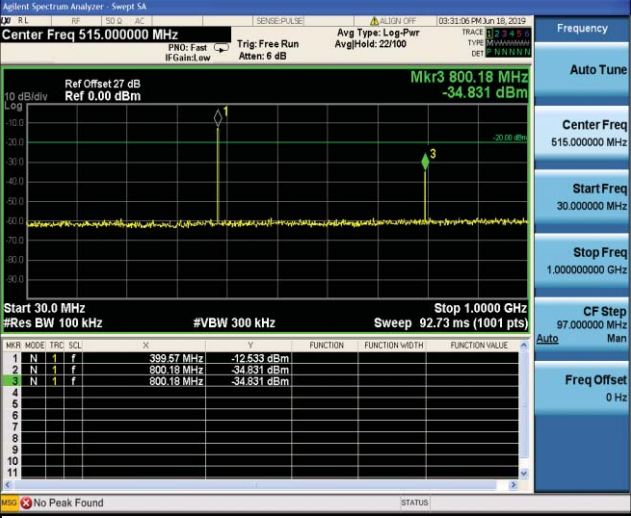
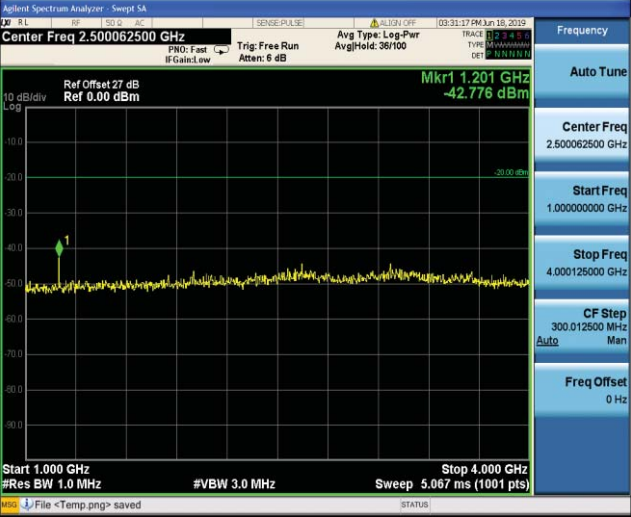
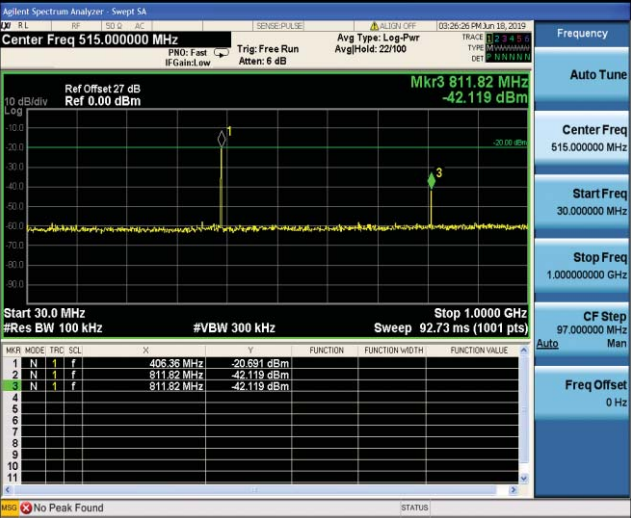


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG JFSX (170MHz) VSG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 406.1125 MHz 1001 pts 10.0 ms 4 Result Summary <table><tr><th></th><th>+Peak</th><th>Carrier Power</th><th>-Peak</th><th>+Peak/2</th><th>RMS</th><th>Carrier Offset</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM</td><td>24.717 kHz</td><td>29.65 dBm</td><td>-21.219 kHz</td><td>22.968 kHz</td><td>2.8319 kHz</td><td>69.09 Hz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 20.06.2019 11:08:02 Date: 20.JUN.2019 11:08:02 ON-OFF		+Peak	Carrier Power	-Peak	+Peak/2	RMS	Carrier Offset	Mod. Freq.	SINAD	THD	FM	24.717 kHz	29.65 dBm	-21.219 kHz	22.968 kHz	2.8319 kHz	69.09 Hz	---	---	---
	+Peak	Carrier Power	-Peak	+Peak/2	RMS	Carrier Offset	Mod. Freq.	SINAD	THD														
FM	24.717 kHz	29.65 dBm	-21.219 kHz	22.968 kHz	2.8319 kHz	69.09 Hz	---	---	---														

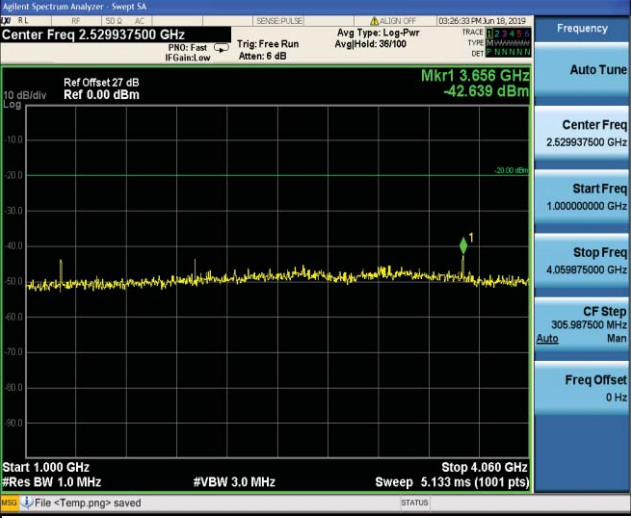
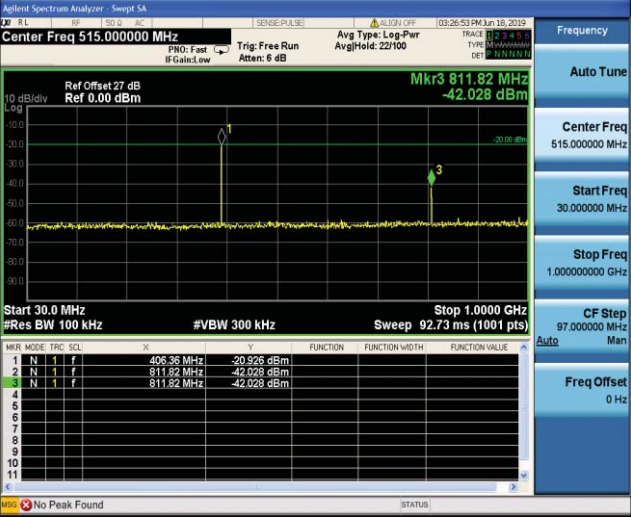


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 800.18 MHz -34.831 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz Mkr1 399.57 MHz -12.533 dBm Mkr2 800.18 MHz -34.831 dBm Mkr3 800.18 MHz -34.831 dBm 30MHz~1GHz
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.500062500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 1.201 GHz -42.776 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.067 ms (1001 pts) Stop 4.000 GHz 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -42.119 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz Mkr1 408.36 MHz -20.691 dBm Mkr2 811.82 MHz -42.119 dBm Mkr3 811.82 MHz -42.119 dBm 30MHz~1GHz

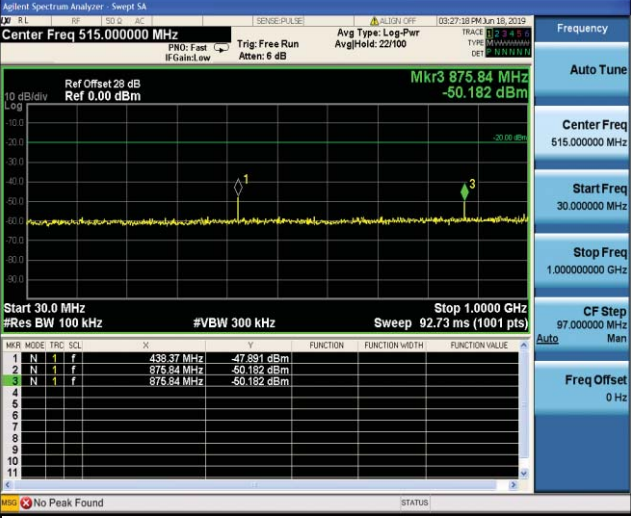
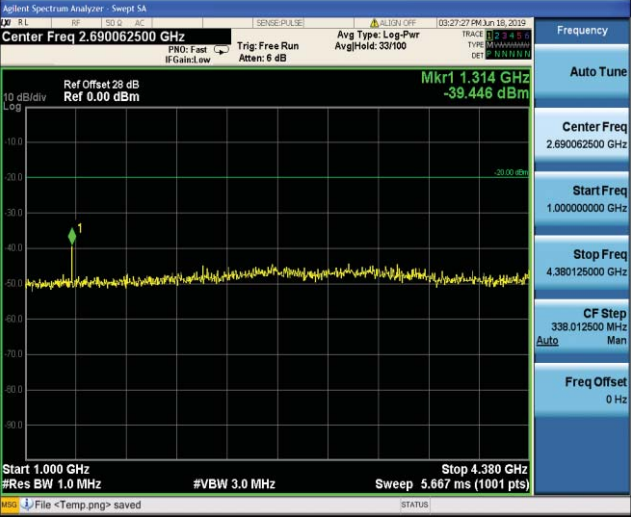
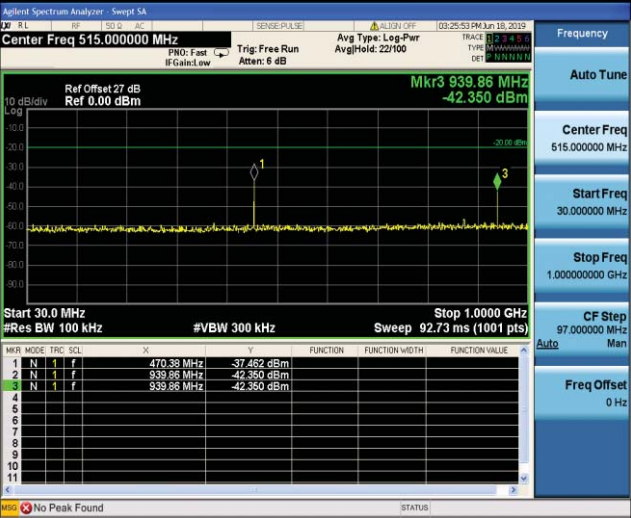


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.656 GHz -42.639 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -42.028 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) No Peak Found Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 1.220 GHz -42.865 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 28 dB Ref 0.00 dBm Mkr3 875.84 MHz -50.182 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr1 438.37 MHz -47.891 dBm Mkr2 875.84 MHz -50.182 dBm Mkr3 875.84 MHz -50.182 dBm No Peak Found 30MHz~1GHz
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.690062500 GHz Ref Offset 28 dB Ref 0.00 dBm Mkr1 1.314 GHz -39.446 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.380 GHz Sweep 5.667 ms (1001 pts) File <Temp.png> saved 1GHz~10th Harmonic
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 939.86 MHz -42.350 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr1 470.38 MHz -37.452 dBm Mkr2 939.86 MHz -42.350 dBm Mkr3 939.86 MHz -42.350 dBm No Peak Found 30MHz~1GHz

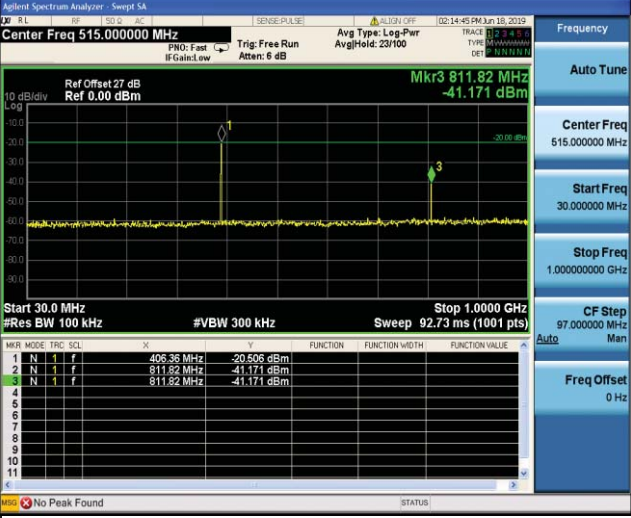
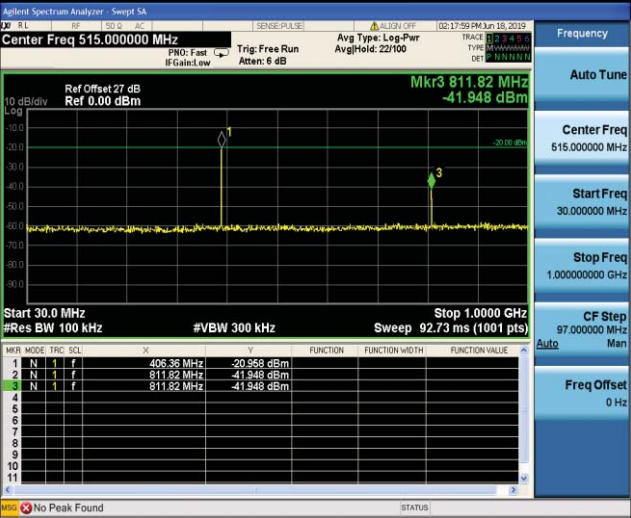


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.849937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 4.700 GHz -42.376 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.700 GHz Sweep 6.200 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																				
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 947.62 MHz -57.914 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>F</th><th>%</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>947.62 MHz</td><td>-57.914 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>947.62 MHz</td><td>-57.914 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>947.62 MHz</td><td>-57.914 dBm</td><td></td><td></td><td></td></tr></table> No Peak Found Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz	MNR	MODE	TRC	SCL	F	%	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	947.62 MHz	-57.914 dBm				2	N	1	f	947.62 MHz	-57.914 dBm				3	N	1	f	947.62 MHz	-57.914 dBm			
MNR	MODE	TRC	SCL	F	%	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	947.62 MHz	-57.914 dBm																																		
2	N	1	f	947.62 MHz	-57.914 dBm																																		
3	N	1	f	947.62 MHz	-57.914 dBm																																		
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.500062500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 1.201 GHz -43.801 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.000 GHz Sweep 5.067 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.500062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.000125000 GHz CF Step 300.012500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																				

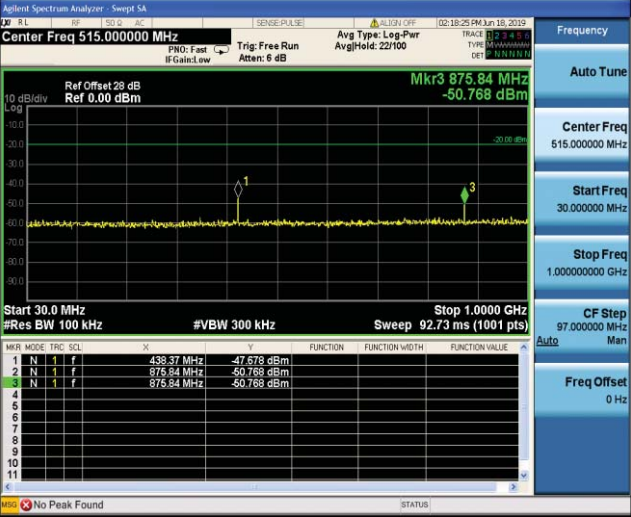


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -41.171 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr Mode TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 406.36 MHz -20.506 dBm 2 N 1 f 811.82 MHz -41.171 dBm 3 N 1 f 811.82 MHz -41.171 dBm No Peak Found Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz 30MHz~1GHz
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.653 GHz -42.671 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.060 GHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.05975000 GHz CF Step 305.967500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-ANH	FM	CH _{M2}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -41.948 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr Mode TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 406.36 MHz -20.958 dBm 2 N 1 f 811.82 MHz -41.948 dBm 3 N 1 f 811.82 MHz -41.948 dBm No Peak Found Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz

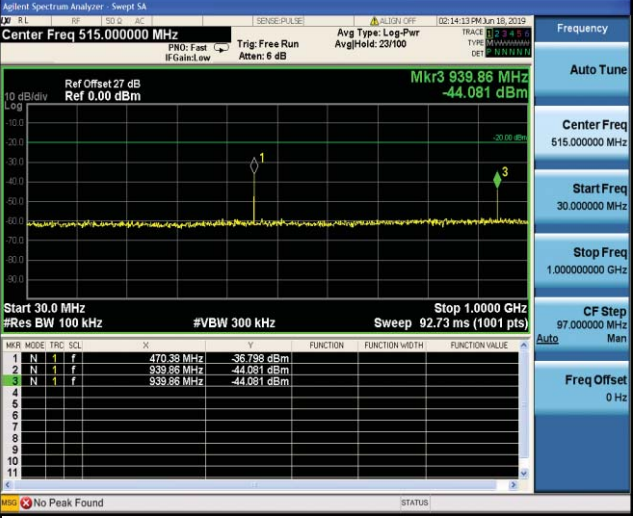


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.654 GHz -42.688 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved 1GHz~10th Harmonic
TX-ANH	FM	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 28 dB Ref 0.00 dBm Mkr3 875.84 MHz -50.768 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) No Peak Found 30MHz~1GHz
TX-ANH	FM	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.690062500 GHz Ref Offset 28 dB Ref 0.00 dBm Mkr1 1.314 GHz -40.181 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.667 ms (1001 pts) File <Temp.png> saved 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-ANH	FM	CH _H	<table border="1"><thead><tr><th>Mkr</th><th>Mode</th><th>Freq (MHz)</th><th>Power (dBm)</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>470.39</td><td>-36.798</td></tr><tr><td>2</td><td>N</td><td>939.86</td><td>-44.081</td></tr><tr><td>3</td><td>N</td><td>939.86</td><td>-44.081</td></tr></tbody></table> 30MHz~1GHz	Mkr	Mode	Freq (MHz)	Power (dBm)	1	N	470.39	-36.798	2	N	939.86	-44.081	3	N	939.86	-44.081
Mkr	Mode	Freq (MHz)	Power (dBm)																
1	N	470.39	-36.798																
2	N	939.86	-44.081																
3	N	939.86	-44.081																
TX-ANH	FM	CH _H	<table border="1"><thead><tr><th>Mkr</th><th>Mode</th><th>Freq (GHz)</th><th>Power (dBm)</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>4.700</td><td>-44.578</td></tr></tbody></table> 1GHz~10th Harmonic	Mkr	Mode	Freq (GHz)	Power (dBm)	1	N	4.700	-44.578								
Mkr	Mode	Freq (GHz)	Power (dBm)																
1	N	4.700	-44.578																

----End of Report----